

**ABSTRACT**

An electrolyte composition containing an ionic liquid and conductive particles as main components, an electrolyte composition containing an ionic liquid, and oxide semiconductor particles or oxide semiconductor particles, and conductive particles, and an  
5 electrolyte composition containing an ionic liquid and insulating particles are provided. Furthermore, a photoelectric conversion element comprising: a working electrode, the working electrode comprising an electrode substrate and an oxide semiconductor porous film formed on the electrode substrate and sensitized with a dye; a counter electrode disposed opposing the working electrode; and an electrolyte layer made of these  
10 electrolyte compositions is provided.